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PAPER

04/01/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
07/683,016	04/10/1991	HUY X. NGUYEN	82-2775 CIP2 (4820)	5053	
128 9-99 0400,25011 HONEYWELL INTERNATIONAL INC. PATENT SERVICES 101 COLUMBIA ROAD P O BOX 2245 MORRISTOWN, NJ 07962-2245				EXAMINER JOHNSON, STEPHEN	
			ART UNIT	PAPER NUMBER	
			3641		
			MAIL DATE	DELIVERY MODE	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.	Applicant(s)	_
07/683,016	NGUYEN ET AL.	
Examiner	Art Unit	_
Stephen M. Johnson	3641	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

earned p	atent term adju:	stment. See 37	CFR 1.704(b	).

Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS S WHICHEVER IS LONGER, FROM THE MAILING DATE C. Extensions of time may be available under the provisions of 37 CFR 1 139(a), Ir will be considered to the considered of the considered to	DE THIS COMMUNICATION.  In no event, however, may a reply be timely filed  y and will expire SIX (6) MONTHS from the mailing date of this communication, the application to become ABANDONED (35 U.S.C. § 133).
Status	
1) Responsive to communication(s) filed on 31 July 20. 2a) This action is <b>FINAL</b> . 2b) This action 3) Since this application is in condition for allowance exclosed in accordance with the practice under Expansive Technology.	n is non-final. xcept for formal matters, prosecution as to the merits is
Disposition of Claims	
4)   Claim(s) 1-7.10-13 and 15-27 is/are pending in the at 4a) Of the above claim(s) is/are withdrawn fro 5)   Claim(s) is/are allowed.  Claim(s) 1-7.10-13 and 15-27 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or elections.	m consideration.
Application Papers	
9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted Applicant may not request that any objection to the drawin Replacement drawing sheet(s) including the correction is 11) ☐ The oath or declaration is objected to by the Examine	ng(s) be held in abeyance. See 37 CFR 1.85(a). required if the drawing(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	
12) Acknowledgment is made of a claim for foreign priori a) All b) Some c) None of:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do	e been received. e been received in Application No couments have been received in this National Stage T Rule 17.2(a)).
Attachment(s)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  5) I totice of Informal Patent Application.

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Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
5) Information Disclosure Statement(s) (PTO/SB/06)	Notice of Informal Patent Application	
Paper No(s)/Mail Date	6) Other:	

Application/Control Number: 07/683,016

Art Unit: 3641

This Office action is in response to the Rescinding Order as mailed on 7/31/2008. Claims
 1-7, 10-13, and 15-27 are active in this application and an action on these claims follows. Claims
 8-9 and 14 have been cancelled.

 Claims 1-7, 10-13, and 15-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 lacks a period. In claim 1, last line, it is not understood as to whether the terminology "initiating/compatibilization agent" is intended to mean (initiating or compatibilization agent) or (initiating and compatibilization agent). Please clarify,

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
  obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-7, 12-13, 15-20, and 22-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harpell et al. (4,748,064) in view of Schneider et al. (4,692,479).

Harpell et al. disclose an impact resistant composite comprising:

a) two or more adjacent layers; prepegs; col. 11, lines 15-32

b) two adjacent fibrous network layers: col. 10, lines 3-57

c) tensile modulus of at least 950 g/denier; col. 10, lines 3-8; col. 2, lines

35-68

d) an energy-to-break of 58.5 J/g; col. 10, lines 3-8; col. 2, lines

35-68

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e) a tenacity of 25.9 g/denier; col. 10, lines 3-8; col. 2, lines

35-68

f) polyethylene filaments; col. 2, lines 58-68

g) parallel filament rows; col. 9, lines 23-40

h) filament rows aligned at 90 degrees to each other; col. 15, lines 61-65

i) woven or non-woven filaments; col. 4, lines 38-42

j) a volume fraction of at least 0.4; claims 7-9

k) at least one additional layer of a glass reinforced col. 10, lines 37-64

polymer; and

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m) a polymer blend. col. 10, lines 37-64

Harpell et al. (064) applies as recited above. However, undisclosed is a polymer blend of a thermosetting resin; a thermoplastic resin; and an initiating/compatibilization agent. Schneider et al. (479) teach a polymer blend of a thermosetting resin (phenolic resins (col. 7, line 43-59; col. 12, lines 36 to col. 13, line 63); a thermoplastic resin (diphenylmethane diisocyanante; col. 14, lines 52-59); and an initiating/compatibilization agent (curing agent or binding agent; col. 15, line 7-18; col. 16, lines 8-29; col. 18, lines 22-36). Applicant is substituting one type of polymer blend matrix material for another in an analogous art setting as explicitly encouraged by the primary reference (see col. 6, lines 1-68 of Harpell et al. (064)) with expected or predictable results (see KSR Int'l Co. v. Teleflex, Inc., 550 U.S. 398, 406 (2007)). It would have been obvious to a person of

ordinary skill in this art at the time of the invention to apply the teachings of Schneider et

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al. to the Harpell et al. composite and have a composite material with a different type of

elastomeric matrix material.

Claims 10-11 and 21 would be allowable if rewritten to overcome the rejection(s) under

35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations

of the base claim and any intervening claims.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Stephen M. Johnson whose telephone number is 571-272-6877

and whose e-mail address is (Stephen.Johnson@uspto.gov). The examiner can normally be

reached on Tuesday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Carone can be reached on 571-272-6873. The Central FAX phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 800-786-9199.

/Stephen M. Johnson/ Primary Examiner, Art Unit 3641

SMJ

March 21, 2011